

Details on achievements and initiatives of Ministry of Petroleum & Natural Gas in the year 2023:

1. PRADHAN MANTRI UJJWALA YOJANA (PMUY)

- Since the launch of PMUY in May 2016, more than 10 crore free connections have been given to women from poor families till date.
- Since inception of the scheme, about 177 crore LPG refills have been taken by PMUY beneficiaries. More than 10.5 lac refills are delivered daily to the PMUY beneficiaries.
- A targeted subsidy of Rs. 300/cylinder is being given to all Ujjwala beneficiaries.

2. LPG COVERAGE

- Since April 2014, the number of domestic LPG connections in the country have more than doubled i.e. from 14.52 crores to 31.80 crores (as on 01.12.2023).
- As on 01.12.2023, approx. 29.49 crore LPG consumers are enrolled under the **DBTL-PAHAL** scheme. Till date, more than 1.14 crore customers have given up their LPG subsidy under '**GiveltUp**' campaign.
- Since 2014, number of LPG Distributors has increased from 13,896 to 25,440 as on 01.12.2023 enhancing LPG access and availability.

3. AMENITIES

- Under Promotion of Digital Payment infrastructure at Retail Outlets (ROS), as on 01.12.2023, Point of sale (POS) terminals and e-wallet facilities have been provided at 72,607 ROS across the country. 78,100 ROS have been enabled with BHIM UPI.
- Under Swachh Bharat Mission, toilet facilities are ensured at every retail outlets. As on 01.12.2023, out of 79,877 ROS, 79,521 ROS have toilet facility which includes 62,636 RO having separate toilet facility for male and female.
- As on 01.12.2023, Oil Marketing Companies (OMCs) have commissioned total 2,957 Door to Door Delivery (DDD) Bowsers through Dealers and Start-ups.
- Electric Vehicle Charging Stations (EVCS) are being provided at Oil Marketing Companies (OMCs) RO. As on 01.12.2023, OMCs have installed 9,878 EV charging stations and 122 battery swapping Station across India.
- 7 new entities have been authorized to market bulk/ retail sale of Motor Spirit (MS)/ High Speed Diesel (HSD) under resolution dated 8th November,2019.
- Kerosene Free states/UTs: As a result of allocation reforms, States/UTs of Haryana, Punjab, Andhra Pradesh, Delhi, Chandigarh, Dadar Nagar Haveli and Daman & Diu, Puducherry, Andaman & Nicobar Islands, Uttar Pradesh, Rajasthan, Goa and Gujarat have become 'Kerosene Free States/ UTs'.

4. MAJOR SHIFT TO BS-VI

- Auto Fuel Vision Policy (implementation of BS-VI fuels): BS-VI grade of auto fuels have been supplied w.e.f. 01.04.2020 on pan India basis. With BS-VI fuels, sulphur emissions have reduced by 80% vis-a-vis BS-IV levels.

5. NATURAL GAS PIPELINES

- Since, 2014, India has increased the operational Natural Gas Pipeline length from 15,340 km to 24,623 km (as on 30.09.2023). Further, about 10,860 Kms natural gas pipeline are under execution. With the completion of these pipelines authorized by PNGRB/Gol, the national gas grid would be completed and would connect all major demand and supply centre in India.
- Since 2014, the number of LNG terminals increased from 4 (with a capacity of 22 MMTPA/ -79.2 MMSCMD to 7 (with a capacity of 47.7 MMTPA/-171.7 MMSCMD).

6. UNIFIED PIPELINE TARIFF

- The Petroleum and Natural Gas Regulatory Board ("PNGRB") has amended PNGRB (Determination of Natural Gas Pipeline Tariff) Regulations to incorporate the regulations pertaining to Unified Tariff for natural gas pipelines with a mission of "One Nation, One Grid and One tariff".
- With commissioning of newer interconnected pipelines, the national gas grid will keep expanding with Unified tariff. The reform will specially benefit the consumers located in the far-flung areas where currently the additive tariff is applicable and facilitate development of gas markets and vision of government to increase the gas utilisation in the country.

7. CITY GAS DISTRIBUTION NETWORK

- Coverage of City Gas Distribution (CGD) network has increased from 37 Geographical Areas (GAS) spread over 66 districts in May 2014 to 300 GAS spread over 645 districts with a potential to cover about 88% of the country's area and 98% of country's population.
- Further, PNGRB has initiated process of 12th and 12A CGD bidding round covering additional 7 GAS in North Eastern States and Union Territories of J&K and Ladakh.
- With the completion of the 12th and 12 A CGD bidding round, almost entire country shall have CGD coverage.
- As on 31.10.2023, the total number of PNG (D) connections were 1.19 Crs and there were 6088 CNG stations in the country.

8. SATAT INITIATIVES

- SATAT initiative launched in October 2018 aiming to establish an ecosystem for production) and utilization of Compressed Bio Gas (CBG).

- SATAT synergises with GOBARdhan initiative, Swachh Bharat Mission, COP 21&26 commitments, AtamNirbhar Bharat etc.
- Under SATAT initiatives Oil and Gas Marketing Companies invites Expression of Interest (Eoi) to procure CBG from potential entrepreneurs. Policy guidelines for comingling of CBG with Natural Gas in City Gas Distribution (CCD) network have been issued for synchronization of CBG with CNG.
- Till 31st October- 2023, 50 CBG projects have been commissioned. Sale of CBG has been initiated from more than 130 Retail outlets. Supply of CBG initiated in 21 Geographical Areas of CGD network

9. REVIEW DOMESTIC GAS ALLOCATION FOR CGD ENTITIES

- MoP&NG issued revised guidelines on 06.05.2022 for allocation/supply of pooled natural gas to CGD entities for CNG (T) and PNG (D) segments.
- Further, to cater the growing demand of CGD sector and protect the common people from price volatility. The Government released new CGD sector Gas allocation Guidelines wherein the allocation of PNG (Domestic) segment was increased (i.e. 105% of PNGD consumption in the previous quarter) and balance available volume to be supplied to CNG (T) segment on prorata basis.
- The revised methodology has been helpful for the CGD entity as the lag between the allocation and reference period has been reduced from average of 6 months to average of 3 months which reflects a more realistic consumption data.

10. DOMESTIC GAS PRICING

- Revised guidelines issued in April 2023 for gas produced from nomination fields of ONGC/OIL, New Exploration Licensing Policy (NELP) blocks and pre-NELP blocks, where Production Sharing Contract (PSC) provides for Government's approval of prices.
- The price of such natural gas shall be 10% of the monthly average of Indian Crude Basket and shall be notified on a monthly basis. And shall have a floor and a ceiling. This has resulted in reduction of APM /NAPM gas prices from the nominated fields from USD 8.57 per MMBTU to USD 6.5 per MMBTU.
- The reduced gas price shall positively impact the domestic, Fertilizer and power consumers.

11. BIO FUELS AND ETHANOL BLENDING

- For the Ethanol Supply Year (ESY) 2022-23 (ESY: 1st December to 31st October) the Oil Marketing Companies (OMCs) blended 508.9 Crore litres of Ethanol which enabled a cumulative blending of over 12%. The Public Sector OMCs have started dispensing E20 petrol (20% ethanol in petrol) at 9300 retail outlets across the country.
- In the last 9 years, Public Sector OMCs have paid over Rs. 1,20,000/- crores to distillers for ethanol supply; ethanol production capacity increased by 2.5 times and carbon dioxide emissions lowered by approx. 427 lakh MT with a cumulative foreign exchange impact of over Rs. 78,262/- crore.

- During April to November 2023, OMCs have procured 29.25 crore litres of biodiesel for the bio-diesel blending programme as against 5.90 crore litres during April to November 2022.
- Green Hydrogen: Oil and Gas PSUs have taken various steps towards establishing Pilot and Commercial Green Hydrogen Plants of 33.17 KTPA by 2026.
- World's first BS6 Hybrid Ethanol Powered Car has been unveiled on 29th August 2023.
- India's first Green Hydrogen fuel cell bus has been flagged off at Kartavya Path Delhi on 25th September 2023.
- The 1st Commercial Flight of India between Pune to Delhi using indigenously produced SAF blend aviation turbine fuel was successfully flown on 19th May 2023.

12. EXPANSION OF REFINING CAPACITY

- The total Indian refining capacity has increased from 215.07 MMTPA in 2014 to 253.92 MMTPA till now as India has become the 4th largest refiner in the world.
- Further, Capacity expansions of 5.4 MMTPA in Vizag refinery (HPCL), and Work under progress in 09 refineries for 47.05 MMTPA capacity addition by FY 2025-26 is being executed. Future Capacity expansion planned at Paradip & Chennai. Capacity expansion at Bina Refinery is underway.

13. EXPLORATION AND PRODUCTION

- **Hydrocarbon exploration licensing policy (HELP) along with open acreage policy** has been notified on 30.03.2016. The new exploration policy provides for a paradigm shift from Production Sharing Contract (PSC) regime to Revenue Sharing Contract (RSC) regime. Total 134 blocks covering more than 2,07,691 sq.km area have been allocated to the companies in seven concluded OALP Bid Rounds with committed investment of 3.13 USD billion
- **Discovered Small Field Policy (DSF) Policy:** Government introduced DSF Policy in Year 2015. 3 Rounds of DSF Bidding concluded till date and 85 Contracts signed whereas 54 Contracts are currently active. 5 fields on Production whereas 10 fields to come up on production by March 2025. Cumulative production till July 2023 are 311 Mbbl Oil and 100 MMSCM Gas. DSF Rounds has brought 15 New Players.
- **CBM in India:** With 12 Blocks and a production rate of 1.8 MMSCMD, CBM has achieved a cumulative production of—5.95 BCM. With more than USD 2.46 billion investment received till date, the production is expected to enhance 1.3 times in next 3 years with 16 blocks on offer in 7 states.
- **National Seismic Program:** Government formulated National Seismic Programme (NSP) in October, 2016 to appraise the unappraised areas in all sedimentary basins of India where no/scanty data was available. Under the programme, Government approved the proposal for conducting 2D seismic survey for data Acquisition, Processing and Interpretation (API) of 48,243 Line Kilo Metres (LKM).

- **National Data Repository:** In July 2017, Government of India has set up an E&P data bank, National Data Repository (NDR), with state-of-the-art facilities and infrastructure for preservation, upkeep and dissemination of data to enable its systematic use for future exploration and development. Having an NDR for India has helped in enhancing prospects of petroleum exploration and facilitating the Bidding Rounds by improving the availability of quality data. With this action, India has joined the league of countries that have an NDR and can compete effectively in the hydrocarbon exploration and production sector.
- **No-Go areas opened for E&P:** Overall ~99% of No-Go areas have been opened for E&P. This has eased restrictions for E&P operations from about 1 MnSq Km of offshore areas in EEZ. Commercial entities and government agencies will concurrently operate in EEZ.

14. INTERNATIONAL CO-OPERATION

- India Energy Week 2023 was held in February 2023 in Bengaluru. It was the first iteration of Ministry's flagship global event and major energy event under India's G20 presidency. The event was inaugurated by Hon'ble Prime Minister Shri Narendra Modi, who launched E20 fuel at 84 Retail Outlets of Oil Marketing Companies in 11 States/UTs and flagged off Green Mobility Rally that witnessed participation of 57 vehicles running on sustainable green energy sources viz., E20, E85 Flex Fuel, Hydrogen, Electric etc. The event witnessed participation of more than 50 countries comprising of 40 Ministerial and Deputy Ministerial rank, 500 international speakers, 30,000 energy professionals, more than 8000 delegates and around 700 exhibitors.
- In September 2023, the Global Biofuels Alliance (GBA) was launched by Hon'ble Prime Minister along with leaders of 8 countries, on the sidelines of the G20 summit as a significant milestone in these initiatives. Presently, the alliance has expanded to include 22 countries and involves the active participation of 12 key international organizations.
- To ensure continued supply of affordable energy to the citizens, Government has strengthened efforts by diversifying sources of oil & gas from different countries; Guyana, Brazil, Colombia, USA, Australia, Russia to name a few. Government has also made efforts to reinforce our traditional relations with existing partners while also leveraging commitments to accelerate efforts towards a just and sustainable energy transition. Efforts have been invigorated on bilateral cooperation and engagements with neighbouring countries by supporting them navigate their energy crisis.

15. STRATEGIC PETROLEUM RESERVES

- Hon'ble Prime Minister in February 2019 dedicated 5.33 MMT of strategic crude oil storage in SPR Phase-I (1.5 MMT SPR facility in Mangalore and 2.5 MMT SPR facility in Padur and 1.3 MMT SPR facility in Vishakhapatnam)
- Under Phase II of the petroleum reserve programme, Government has given approval in July 2021 for establishing two additional commercial-cum-strategic facilities with total storage capacity of 6.5 MMT (underground storages at Chandikhol (4 MMT) and Padur (2.5 MMT)) on PPP mode.

16. HYDROCARBON PROJECTS & INVESTMENTS

- As of October 2023, Oil & Gas CPSEs are implementing 366 number of projects costing crore & above with an anticipated cumulative cost of 5.89 lakh crore.
- During the last 9 years from June 2014 to March 2023, Oil & Gas CPSEs has completed 272 projects costing Rs 100 crore & above with investment of around Rs 3.78 lakh crore.
- Major Projects completed in the last 9 years are as follows:
 - 15 MMTPA grassroots Refinery at Paradip, Odisha of IOCL (Rs 34,555 crore). ➤ Integrated Refinery Expansion Project (IREP) at Kochi Refinery of BPCL (Rs 16,504 crore).
 - MRPL Phase III Expansion (Rs 12152 crore).
 - Petrochemical Complex at Pata of GAIL (Rs 9253 crore).
 - Mumbai High North Redevelopment Phase-II of ONGC (Rs 7133 crore).

17. FLAGSHIP PROGRAMMES

- StartUp India: The PSUs under the Ministry of Petroleum and Natural Gas have created a corpus fund of Rs.495 crores. At present, a total no. of 256 Startup is being funded by the PSUs with an allocated fund value of approximately Rs.253 crores.
- Skill Development: Skill Development Institutes (SDIs) for hydrocarbon sector have been set up at six cities viz Bhubaneswar, Vizag, Kochi, Ahmedabad, Guwahati and Raebareli. More than 33,603 trainees have been trained in these SDIs. Several high priority trades have been identified in consultation with the Industry members for National Occupational Standard (NOS)/ Qualification Pack (QP) development. Till date, 44 QPs have been approved by National Skill Qualification Committee (NSQC).

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